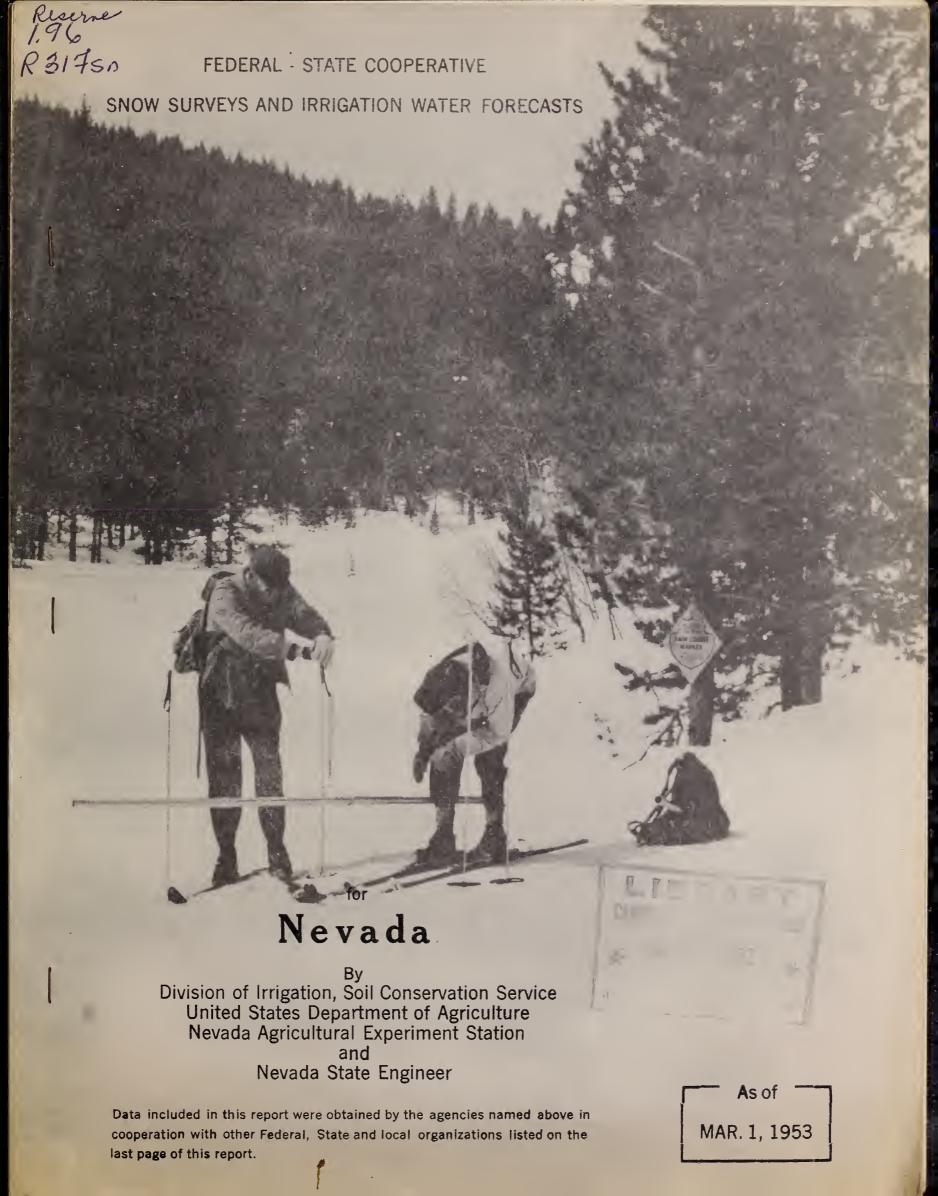
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UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in this bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrologist in Charge River Forecast Center U. S. Weather Bureau 712 Federal Office Building Kansas City 6, Missouri

FEDERAL-STATE COOPERATIVE SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR

NEVADA

Report Prepared

by

Clyde E. Houston & Norman S. Hall Irrigation Engineers

Division of Irrigation Soil Conservation Service Nevada Agricultural Experiment Station Reno, Nevada

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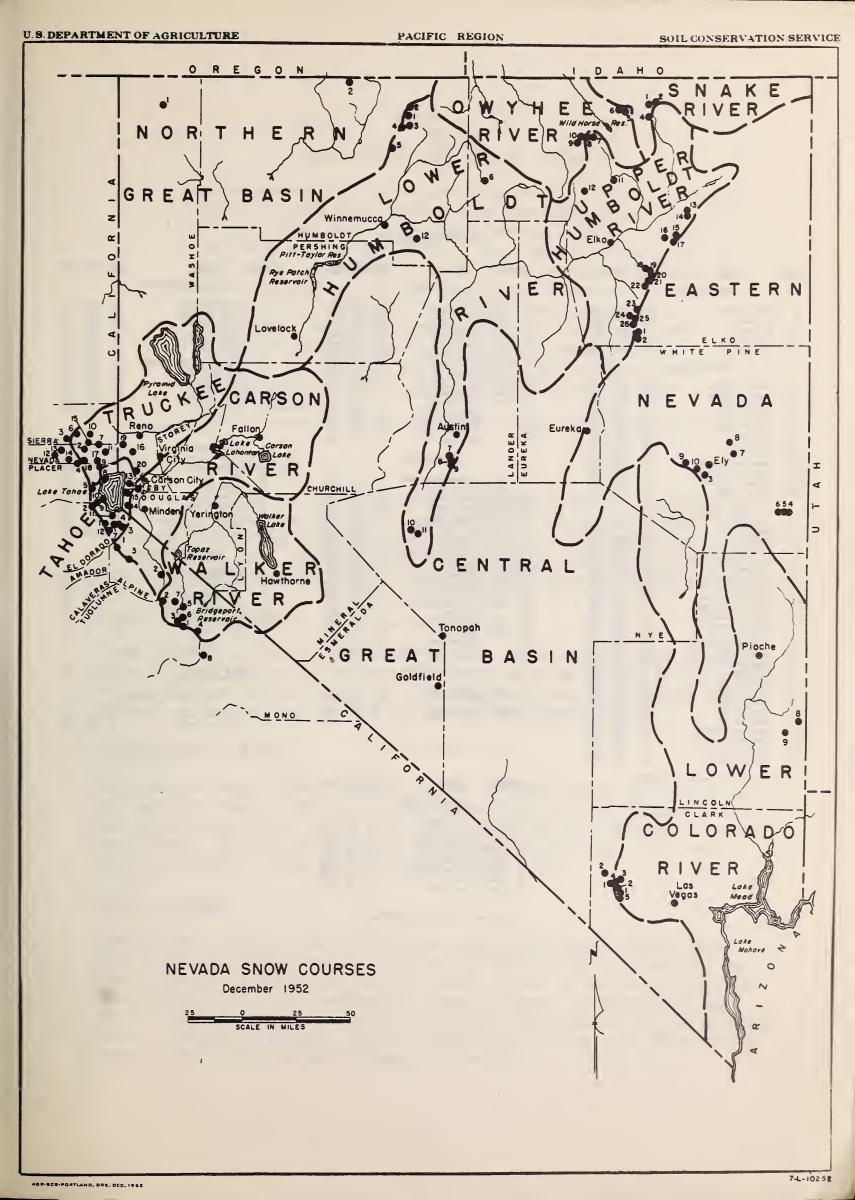
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INDEX TO SNOW COURSES

NUMBER NAME	SEC. TWP. RGE.	NUMBER NAME SEC. TWP. RGE.	NUMBER NAME SEC. TWP. RGE.
SNAKE RIVER		LAKE TAHOE	LOWER HUMBOLDT RIVER
1. Bear Creek 2. Fox Creek 4. 76 Creek 5.* Gold Creek 6.* Big Bend OWYHEE RIVER	31 46N 58E 33 46N 58E 6 44N 58E 31 45N 56E 30 45N 56E	1. (Cal.) Lake Lucille 28 12N 17E 2. (Cal.) Rubicon #1 6 13N 17E 3. (Cal.) Hagans Meadow 36 12N 18E 4. (Cal.) Freel Bench 36 12N 18E 5. (Cal.) Ward Creek 21 15N 16E 7. (Cal.) Upper Truckee 21 12N 18E 8. (Cal.) Taboe City 6 15N 17E	1. Lower Buckskin 25 L5N 39E 2. Upper Buckskin 11 L5N 39E 3. Martin Creek 18 LLN LOE L. Granite Peak 22 LLN 39E 5. Lamance Creek 13 L2N 38E 6. Midas 18 39N L6E 7. Big Creek Camp Ground 10 17N L3E
1.* Lower Buckskin 2.* Upper Buckskin 3.* Martin Creek 4.* Granite Peak 5. Gold Creek 6. Big Bend	25	9. (Cal.) Rubicon #2 6 13N 17E 10. (Cal.) Rubicon #3 32 14N 17E 11. (Cal.) Richardsons #2 6 12N 16E 12. (Cal.) Echo Summit 6 14N 16E 13. Marlette Lake 13 15N 16E 14. Daggetts Pass 19 13N 19E 15. Clenbrook #2 13 14N 18E	8. Big Creek Mine 23 17N 13E 9. Upper Big Creek 26 17N 13E 10. Lower Corral 12 11N 10E 11. Upper Corral 20 11N 11E 12. Golconda 22 35N 39E EASTERN NEVADA
7.* Fry Canyon 8.* Rodeo Flat 9. Lower Jack Creek 10. Upper Jack Creek 11.* Tremewan Ranch 12.* Taylor Canyon	31 L3N 5LE 36 L3N 53E 18 L2N 53E 9 L2N 53E 9 39N 55E 35 39N 53E	16.* Mt. Rose 7 17N 19E TRUCKEE RIVER 2. (Cal.) Independence Lake 9 18N 15E 3.*(Cal.) Webber Peak 30 19N 14E	1. Cave Creek 25 27N 57E 2. Hager Canyon 34 27N 57E 3. Murray Summit 25 16N 62E 4. Baker #1 29 13N 69E 5. Baker #2 30 13N 69E
UPPER HUMBOLDT RIVER 1.* Bear Creek 2.* Fox Creek 4.* 76 Creek	31 L6N 58E 33 L6N 58E 6 LLN 58E	1.*(Cal.) Donner Summit	6. Baker #3 25 13N 68E 7. Berry Creek 26 17N 65E 8. Bird Creek 34 19N 65E 9. Robinson Summit 34 18N 61E 10. Kimberly 18 16N 62E
5.* Gold Creek 6.* Big Bend 7.* Fry Canyon 8.* Rodeo Flat 9.* Lower Jack Creek 10.* Upper Jack Creek 11. Tremewan Ranch 12. Taylor Canyon 13. Lower Trout Creek 14. Upper Trout Creek 15. Doreey Easin	31	10. (Cal.) Independence Creek ll 19N 15E 11. (Cal.) Boca #2 28 18N 17E 12.*(Cal.) Furnace Flat 10 17N 13E 13.*(Cal.) Fordyce Lake 34 18N 13E 14.*(Cal.) Soda Springs 23 17N 14E 15. (Cal.) Independence Camp 34 19N 15E 16. Mt. Rose 7 17N 19E 17. (Cal.) Truckee Ranger Sta. 10 17N 16E 18. (Cal.) Donner Lake 14 17N 15E 19. Big Meadows 15 18N 18E 20. Little Valley 17 16N 19E	LOWER COLCRADO RIVER 1. Rainbow Canyon 31 19S 57E 2. Kyle Canyon 26 19S 56E 3. Lee Canyon #1 10 19S 56E 4. Lee Canyon #2 9 19S 56E 5. Rainbow Canyon #2 6 20S 57E 8. Mathew Canyon 11 5S 70E 9. Pine Canyon 11 6S 69E CENTRAL GREAT BASIN 19S 57E 11 6S 69E 11 6S 69E
16. Ryan Ranch 17. Dry Creek 18. Lamoille #1 19. Lamoille #2 20. Lamoille #3	1 34N 59E 5 34N 60E 15 32N 58E 14 32N 58E 24 32N 58E	CARSON RIVER 1. (Cal.) Carson Pass 22 10N 18E 2. (Cal.) Poison Flat 25 8N 21E	1. Clark Canyon 8 19S 56E 2. Trough Springs 23 18S 55E NORTHERN GREAT BASIN
21. Lamoille #4 22. Lamoille #5 23. Green Mountain 24. Harrison Pass #1 25. Harrison Pass #2 26. Corral Canyon	19 32N 59E 31 32N 59E 23 29N 57E 9 28N 57E 16 28N 57E 27 28N 57E	3. (Cal.) Elue Lakes 30 9N 19E 4. Clear Creek 16 14N 19E * Located on adjacent watershed	1. Bald Mountain 17 L5N 21E 2. Disaster Peak 8 L7N 3LE
* Located on adjacent water	rshed	NUMBER NAME SEC. TWP. RGE. WALKER RIVER	
		1. (Cal.) Center Mountain 2. (Cal.) Sonora Pass 1 5N 21E 3. (Cal.) Euckeye Forks 20 LN 23E L. (Cal.) Virginia Lakes 5 2N 25E 5. (Cal.) Willow Flat 6. (Cal.) Buckeye Roughs 7. (Cal.) Leavitt Wegdows 8.*(Cal.) Tioga Pass 30 1N 25E	

^{*}Located on adjacent watershed

March 1, 1953 NEVADA RELIMINARY WATER SUPPLY OUTLOOK

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* March 1, 1953 snow surveys show snow stored water
* ranging from good in Northern Nevada to poor in the
* southern part of the State. High elevation snow in *
* the north is normal or above while low elevation snow >
* is below normal. In the south high elevation snow is *
* below normal and there is no low elevation snow at *
* this time. Reservoired water is excellent with stor- *
* age in important reservoirs about 25 percent above
* normal. In general, streamflow in the northern part >
* of the State has been above normal during the past *
* winter months.

Snake River in Nevada

Snow stored water on the headwaters of Bruneau River is slightly above normal at high elevations but below normal at lower elevations. Owyhee Watershed in Nevada contains about ten percent below normal snow water on this date, with conditions similar to 1950. Wildhorse reservoir stored 19,000 acre feet while normal for this date is 14,000 acre feet.

Upper Humboldt River

Water stored in snow is about ten percent below normal. High elevation snow is excellent with low elevation snow cover poor. U. S. Geological Survey reports the discharge of the Humboldt River at Palisade was 160 percent of the median for the period October through March.

Lower Humboldt River

Snow stored water above Paradise Valley is about sixty percent of normal for this date. The snow course near Midas on Rock Creek was bare. The Upper Reese River country contains about seventy percent of normal snow cover. Rye Patch Reservoir contained 159,000 acre feet, which is the greatest in storage on March 1 since 1947.

Eastern Nevada

Snow stored water on the southeastern Ruby Mountains draining into Ruby Valley is about twenty-five percent above normal, while that on Duck Creek above McGill is nearly normal. Snow on the watershed overlooking the town of Ely presents a much different picture than last year. This year it is nearly normal while last year it was three times normal. Baker and Lehman Creeks watersheds draining into Snake Valley contain only forty percent normal snow water,

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Lower Colorado River

There has been very little snow on Meadow Valley Wash watershed all winter. Snow on the Spring Mountains feeding the Las Vegas artesian basin has changed from last years high of 150 percent normal to this years twenty-five percent normal.

Central Great Basin

Drainage from Spring Mountains west into Pahrump Valley contained Only thirty percent normal snow water compared to last years 175 percent.

Northern Great Basin

Quinn River and the northern interior basins in Nevada contained only about seventy-five percent of normal snow water or amounts similar to 1951.

Lake Tahoe

Extensive surveys on Tahoe Watershed show snow stored water is normal for this date. Elevation of Lake Tahoe was 6227.46 feet on March 1. This represents about 550,000 acre feet of usable storage and is about 125 percent of the past ten year average.

Truckee River

Snow surveys on the Truckee River Watershed show about ten percent above normal water content for this date. Boca stored nearly 6,000 acre feet on March 1.

Carson River

Snow water on Carson Watershed is nearly eighty-five percent of normal. Fortunately, winter streamflow has been above normal and Lahontan stores 269,000 acre feet, or nearly ninety-five percent of capacity.

Walker River

March snow surveys were made on the Walker River Vatershed for the first time this year. They show snow water on this date about eighty-five percent of the normal to be expected on April 1. Storage in Topaz and Bridgeport Reservoirs is excellent, being about ninety-five percent of capacity. U. S. Geological Survey reports the October through March discharge of the West Walker River near Coleville was about 145 percent of the median.

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STATUS OF RESERVOIR STORAGE, MARCH 1, 1953

Comprehensive Comprehensive Communities on Communities of Communities Communit		USABLE CAPACITY	THOUS. ACRE FEET USABLE STORAGE ABOUT MAR. 1							
BASIN AND STREAM	RESERVOIR	(Thous. A.F.)	1953	1952	1951	10-yr. ave. 1942-1951				
Owyhee	Wildhorse	33	19	11	18	14				
Lower Humboldt	Rye Patch	178	159	102	78	126a				
Colorado	Mohave	1,810	1,588	1,606	1,494					
Colorado	Me ad	27,217	18,318	16,574	17,255	18,960				
Tahoe	Tahoe	732	552	550	607	441				
Truckee	Boca	41	6	0	25	9				
Carson	Lahontan	286	269	173	251	220				
West Walker	Topaz	59	56	42	59	41				
East Walker	Bridgeport	42	40	32	42	33				

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LOCATION					OW COVE		UREMENT	
				Water	Conten	t (inc	hes)Pas	t Record
DRAINAGE BASIN AND SNOW COURSE	Elev.	Date of Survey	Snow depth (Ins.)	1953	1952	1951	Years of Record	Av. Wat Content (Ins.)
SNAKE RIVER								
76 Creek Gold Creek Big Bend	7100 6600 6700	2/24 2/25 2/25	42.4 16.6 21.5	15.0 5.5 7.8	12.2	16.5 7.2 11.1	6 20 24	12.3 6.7 9.2
OWYHEE RIVER								
Lower Buckskin Upper Buckskin Martin Creek Granite Peak Gold Creek B ig Bend Fry Canyon Rodeo Flat Lower Jack Creek Upper Jack Creek Tremewan Ranch Taylor Canyon	6700 7200 6700 7800 6600 6700 6800 6800 7250 5700 6200	2/26 2/27 2/24 2/25 2/25 2/25 2/25 2/26 2/26 2/26	14.9 14.1 20.9 26.6 16.6 21.5 24.0 23.9 9.0 31.6 0	5.1 6.8 5.5 7.8 7.4 9.4 10.8 3.6	21.2 23.0 12.2 16.5 15.1 7.9 7.0 12.0	12.0 8.0 9.1 13.9 7.2 11.1 7.8 8.8 1.0 9.9 0.7 2.4	18 18 21 21 20 24 19 19 25 16 21 18	8.9 9.9 8.5 10.3 6.7 9.5 10.1 4.7 9.8 2.8 6.0
UPFER HUMBOLDT 76 Creek Gold Creek Big Bend Fry Canyon Rodeo Flat Lower Jack Creek Upper Jack Creek Tremewan Ranch Taylor Canyon Lower Trout Creek Upper Trout Creek Upper Trout Creek Dorsey Basin Ryan Ranch Dry Creek Lamoille #1 Lamoille #2 Lamoille #3 Lamoille #4 Lamoille #5	7100 6600 6700 6800 6800 7250 5700 6200 6900 8500 8100 5800 7100 7200 7700 8000 8700	2/24 2/25 2/25 2/25 2/25 2/26 2/26 2/26 2/26	39.2 16.6 21.5 24.0 23.9 9.0 31.6 9.9 47.8 37.6 7.1 10.4 26.6 28.2 35.9 46.9 59.4	15.0 5.5 7.8 7.4 9.2 3.4 10.8 0 3.6 0 20.4 8.8 2.0 2.8 8.1 9.5 12.3 19.5 24.7	12.2 16.5 15.1 7.9 6.9 12.0 9.3 26.9 13.7 5.3 11.9 16.0 13.9 18.6 25.7	16.5 7.2 11.1 7.8 8.8 1.0 9.9 0.7 2.4 0.9 25.9 13.4 0 1.1 5.3 7.0 12.0 17.4	6 20 24 19 19 25 16 21 18 16 17 21 21 19 27 26 18 12 16	12.3 6.7 9.2 9.5 10.1 4.7 9.8 2.8 6.0 5.5 20.6 11.0 2.1 5.7 9.6 12.7 18.0 23.7

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DRAINAGE BASIN		Date	Snow	Marer	conten	C (IIIS	Years	Av. Wat
AND SNOW COURSE	Elev.	of Survey	Depth (Ins.)	7953	1952	1951	of Record	Content (Ins.)
			(2110)					(11108)
UPPER HUMBOLDT (con	tinued)						
Green Mountain	8000	4			70.0	5.6	16	12.4
Harrison Pass #1 Harrison Pass #2	6600 7400	3/7	11.5	3.5	10.8	0.6	24	5.2
Corral Canyon	8500	3/6	54.4	15.6		14.0	16	14.5
LOWER HUMBOLDT								
Lower Buckskin	6700	2/27	14.9	5.1		11.3	18	8.9
Upper byskskin	7200	2/27	14.1	5.1	0	8.0	18	9.9
Martin Cheek Granibe Poak	6700 7800	2/24	20.9	6.8	21.2	9.2		8.5
Lamance Creek	6000	2/25	13.8	4.5	19.5	10.2	20	10.7
Midas Big Creek Camp Gra	7200 6 600	3/1	6.6	0 2.1	5.6	5.6	12	5.2
Big Creek Mine	7600	2/4	0,0	ماد ۾ حاد	J. C	1.5	10	3.3
Upper B ig Creek	8000	0/08	0	0	2 7	2.9	9	6.4
Lower Corral Upper Corral	7500 8500	2/28 2/28	0 15.1	0 4.6	3.1	0	10 10	1.9
EASTERN NEVADA								
Cave Creek	7500	3/5	34.2	12.8	28.4	8.7	11	15.5
Hager Canyon	8000	3/5	71.5	29.2	30.2	19.7	12	18.5
Murray Summit Baker #1	7250 7950	3/3 3/1	17.3	4.9	12.6	0	16	4.1
Baker #2	8950	3/1	36.1	6.9	26.4	9.3	11	16.4
Baker #3	9250	3/1	39.8	7.7	30.6	11.2	8	15.9
Berry Creek Bird Creek	9100 7500	3/2	43.8	11.9	23.1	10.7	5	14.0
Robinson Summit	7600	3/3	10.6	2.9	13.4	0	4	5.2
Kimberly	7600	3/3	16.9	4.6	13.5	0.8	4	6.0
LOWER COLCRADO								
Rainbow Canyon	7800	2/25	12.2	3.5	24.6	1.5	12	12.2
Kyle Canyon Lee Canyon #1	8200 8300	2/25 2/27	8.7 6.2	2.4	10.8	1.6	12	9.8
Lee Canyon #2	9000	2/26	10.4	3.0	15.0	3.1	12	11.0
Rainbow Canyon #2	8100	2/25 2/23	20.9	5.5	28.8	2.9	6	16.7
Mathew Canyon Pine Canyon	6200	2/23	0	0	1.6	1.9	4	3.3

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LOCATION				SNOW	COVER	MEASUF	REMENTS	
				Water	Conten	t(Ins) Past R	Name and Address of the Owner, where the Person of the Owner, where the Person of the Owner, where the Owner, which is
DRAINAGE BASIN AND SNOW COURSE	Elev.	Date of Survey	Snow Depth (Ins.)	1953	1952	1951	Years of Record	Av.Water Content (Ins.)
CENTRAL GREAT BASIN								
Clark Canyon Trough Springs	9000 8500	2/26 2/28	10.7	3.1	11.8	2.8	7 7	7.8 6.7
NORTHERN GREAT BASI	N							
Bald Mountain Disaster Peak	6720 6500	2/27 2/27	2.4	1.0	10.3	4.0		4.1 20.6
ТАНОЕ								
Rubicon #1 Ward Creek Tahoe City Rubicon #2 Rubicon #3	8100 7000 6250 7500 6700	2/25 2/24 2/24 2/25 2/25	99.2 93.8 33.2 63.9 53.5	41.0 42.2 14.8 26.8 20.7	80.5	28.6 5.9	12 21	43.6
Richardsons Echo Summit Marlette Daggetts Pass Glenbrook	6500 7500 8000 7350 6900	2/28 3/1 2/27 3/5 3/5	44.2 73.2 52.8 32.9 39.9	16.4 31.5 20.0 12.4 13.5	68.8 36.2 24.9	24.9 12.1 7.6	4 11 21 15 7	9.3 33.8 21.6 12.4 13.6
TR UCKEE								
Donner Summit Ward Creek Sage Hen Creek Tahoe City Truckee #2	6900 7000 6500 6250 6400	2/26 2/24 3/4 2/24 3/5	76.9 93.8 45.6 33.2 38.8	35.4 42.2 18.1 14.8 15.8	73.6 80.5 32.1	23.7 28.6 9.3 5.9	12 14 21	34.6 43.6 16.5 13.9
Independence Creek B oca Fordyce Lake Soda Springs	6300 5900 6500 6750	3/4 2/27 2/25 2/26	37.5 21.1 84.3 73.0	15.2 9.6 36.7 32.7	19.4 70.0 67.1	5.6 3.3 27.5 20.3	15 28	12.6 8.4 35.2 31.1
Independence Camp Truckee Ranger Sta. Donner Lake Little Valley Squaw Valley	7000 6000 5950 6300 7500	3/4 3/2 2/27 2/27 2/26	57.8 32.4 49.6 20.9 112.6	24.1 15.3 21.9 9.5 49.4	30.2	7.0	8 7	12.3

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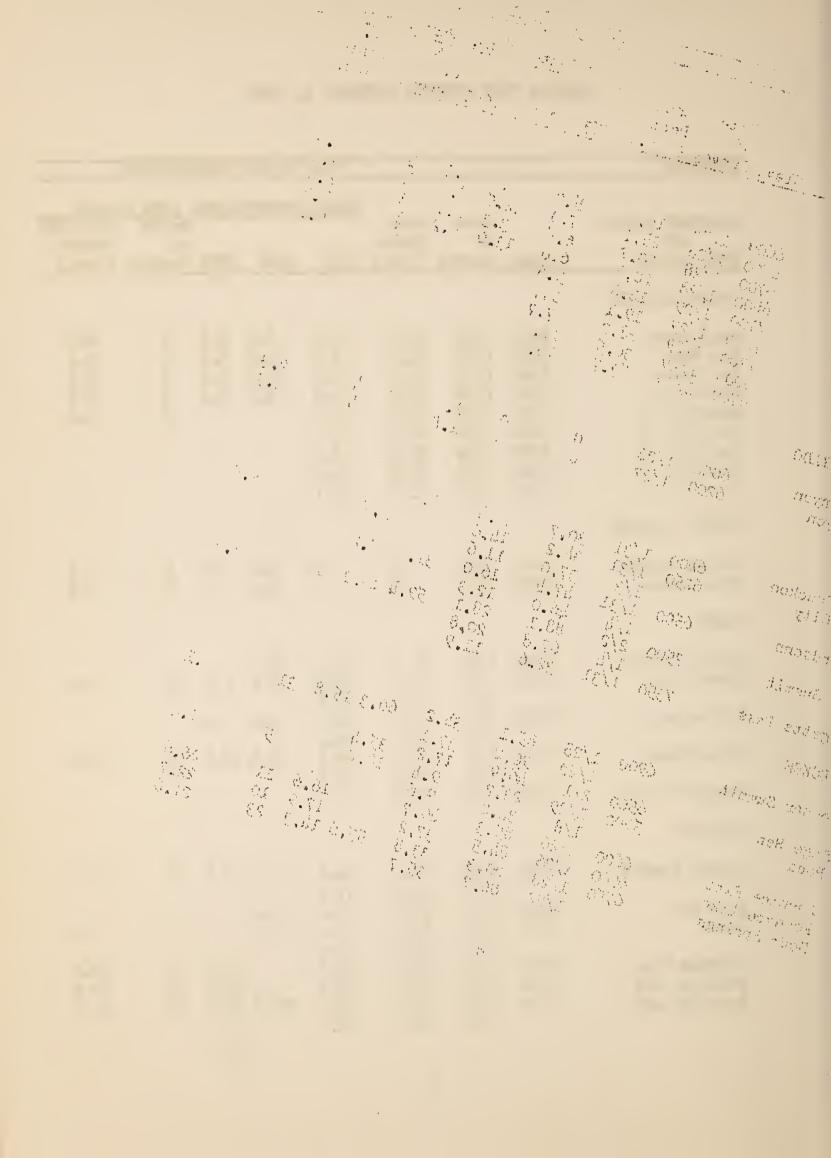
LOCATION			The far-windy state of the province of the state of the s	SNOV	V COVER	MEASU	REMENTS	
				Water	Conten	t(Ins.)	Past R	ecord
DRAINAGE BASIN AND		Date	Snow Depth				Years of	Av.Water Content
SNOW COURSE	Elev,		-	1953	1952		The second secon	(Ins.)
CARSON								
Carson Pass Clear Creek	8600 7300	2/27 2/27	63.0 33.5	26.3 13.5	55,4	22.4	23	31.6 16.8
WALKER								
Sonora Pass Virginia Lakes	8800 9500	2/26 2/26	48.4 37.1	19.1 13.5				

The following table gives results of early snow surveys which have not been published.

The following table gives randisced our of coming and source, which nown not been problemed.

NEVADA SNOW SURVEYS FEBRUARY 1, 1953

LOCATION			·	SNOW	COVER	MEASI	REMENTS	
				Water	Content	t(Ins.) Past R	ecord
DRAINAGE BASIN AND SNOW COURSE	Elev.	Date of Survey	Snow Depth (Ins.)		1952		Years of Record	Av.Water Content
UPPER HUMBOLDT								
Gold Creek Big Bend Fry Canyon Rodeo Flat Lamoille #1 Lamoille #2 Lamoille #3 Lamoille #4 Lamoille #4 Lamoille #5	6600 6700 6700 6800 7100 7200 7700 8000 8700	1/28 1/28 1/28 1/28 1/29 1/29 1/29 1/29 1/29	16.2 24.1 20.7 20.4 18.8 19.1 28.0 36.5 53.7	5.0 7.0 6.5 6.6 5.7 7.7 11.3 18.7	8.5 12.5 13.3 13.0	8.5	4 4 3 3 8	6.0 9.2 8.5 8.8 5.9
LOWER COLORADO								
Mathew Canyon Pine Canyon	6000 6200	1/26 1/27	0	0	1.8	0	4	2.3 3.3
TAHCE								
Upper Truckee Tahoe City	6400 6250	1/31 1/31 1/3	30.7 34.2 37.0	11.4 14.6 11.6	22.0 28.5	5.7	19	9.9
Richardsons	6500	1/31	47.4	16.0	31.9	7.2		
Echo Summit	7500	2/2 1/4	88.1 67.8	28.1	59.4	18.2	11	25.3
Daggetts Pass	7350		32.6	11.9				
TRUCKEE								
Donner Summit	6900	1/28	85.1 92.2	34.2 37.1	60.3	15.8	31	23.1
Sage Hen Boca	6500 5900	2/1 1/29 1/8	46.9 23.2 32.2	17.2 9.4 9.6	35.4 18.2		5	7.4
Furnace Flat Fordyce Lake Soda Springs	6600 6500 6750	1/26 1/26 1/26 1/28 1/22	85.3 84.5 80.3 86.7	40.7 37.2 33.8 35.7		18.6 17.9 14.3		26.6 22.7 21.6



NEVADA SNOW SURVEYS FEBRUARY 1, 1953

LOCATION				SNOV	COVER	MEASUR	ELENTS	
DRAINAGE BASIN AND SNOW COURSE	Elev.	Date of Survey	Snow Depth		Content	and the second second of	Years of	Record Av.Water Content (Ins.)
TRUCKEE (continued)								
Truckee Ranger Sta.	6000	2/3	34.9	13.4	26.3	5.3	3	12.0
Donner Lake	5950	1/8 1/29 1/8	45.2 53.8 63.8	12.5 22.6 20.3			5	18.5
Squaw Valley	7500	1/28 12/16		47.4			٠	
CARSON AND WALKER								
Carson Pass Tioga Pass Lapon Meadow Mt. Grant	8600 9900 9000 9000	1/29 1/31 2/3 1/5 2/3 1/5	0	26.8 18.6 0 0.5 2.5 2.9	47.3 22.0 3.0 3.1 8.0 6.0	17.3		20.9 19.5

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2 S			0.83 0.83 0.8 0.8 0.8	8.89 8.01 0.0 8.0 8.9	92.3 52.3 0 3.1 7.6 8.0	2/32 2/32 2/3 2/3 2/3	9068 9089 9008	Comment Poss Tingen Comm Lapsen Contingen He, Exemp

NEVADA COOPERATIVE SNOW SURVEYS

Agencies Cooperating in Collecting Data Contained in this PBulletin

FEDERAL

Soil Conservation Service Forest Service Geological Survey Bureau of Reclamation Fish and Wildlife Service Army Navy Air Force

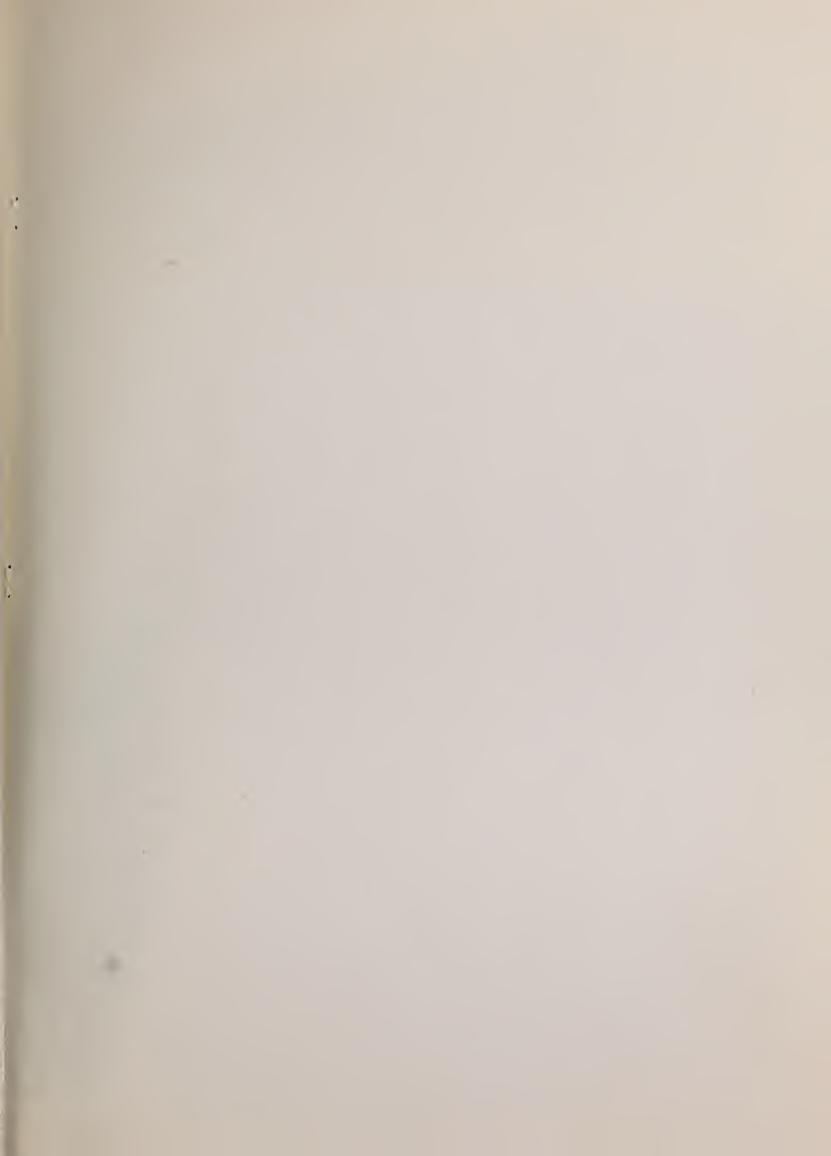
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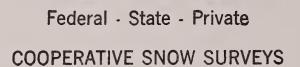
Nevada State Engineer
Nevada Agricultural Experiment Station
Nevada State Forester-Firewarden
Colorado River Commission of Nevada
California Cooperative Snow Surveys
California Division of Water Resources
Oregon Cooperative Snow Surveys

RIVATE

Walker River Irrigation District
Amalgamated Sugar Company
Owyhee Project North B oard of Control
Owyhee Project South Poard of Control
Virginia City Water Company
Kennecott Copper Componation
Squaw Valley Development Company

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Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"